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likely on account of their practically identical proper motion, the absolute magnitude of the faint star is +10.9 and the distance from the principal star 5860 times the distance Sun-Earth.

A. VAN MAANEN.

TEN SPECTROSCOPIC BINARIES.

The binary character of the following stars has been established by measurements of their radial velocities on recent spectrograms:

<i>Star</i>	<i>Mag.</i>	<i>a</i> (1900)	<i>δ</i> (1900)	<i>Spec.</i>	<i>Range</i> <i>km.</i>
Boss 2193	5.8	8 ^h 10.6 ^m	+ 62° 49'	G5	— 19 to + 23
A.G.Cam. 3591	6.5	10 7.3	+ 50° 59'	A4	— 82 to + 37
Boss 4573	5.8	18 0.7	— 8° 20'	B8	— 50 to + 12
Boss 4669	5.6	18 22.1	+ 29° 46'	A4	— 10 to + 40
Boss 4821	5.8	18 54.6	+ 38° 8'	B7	— 90 to + 40
Boss 5150	5.7	20 0.7	+ 31° 56'	Composite	
Boss 5160	6.1	20 3.1	— 10° 21'	Composite	
A.G.Cam. 6486	7.4	20 15.9	+ 55° 5'	F3	— 31 to + 3
Boss 5890	5.8	22 45.9	+ 41° 25'	Composite	
Boss 6129	6.6	23 47.5	+ 74° 59'	Composite	

The period of Boss 4821 is probably of the order of three days. Plates taken on successive nights show a large variation.

The hydrogen lines in the spectrum of Boss 5150 give values differing systematically from those of the helium, silicon, and oxygen lines. The spectrum is B1p.

A faint component is visible on several of the photographs of Boss 5160. The maximum separation observed amounts to about 160 km. The spectrum is A1p.

Measures of a second component on one plate of Boss 5890 give a relative velocity of 190 km. The spectral type is B3p.

The star Boss 6129 is β 996. The star has a proper motion of 0".332 annually. The spectrum is K3p and shows marked variations in the intensities of many of its lines. The spectroscopically determined parallax is +0".132, but on account of the variations in the spectrum separate plates show considerable differences.

W. S. ADAMS,

A. H. JOY.

TWO STARS WITH REMARKABLE RADIAL VELOCITIES.

Measurements of the spectra of two stars observed recently show the following velocities:

	<i>Mag.</i>	<i>Spec.</i>	μ	<i>Velocity</i> <i>km.</i>	<i>No. Plates</i>
A. G. Ber. B. 1366	8.9	F0	0".51	+ 339	4
A. G. Ber. A. 1866	9.0	F9	0.76	— 190	4